

ABSTRACT**METHOD FOR OPTIMIZING PERFORMANCE OF SOFTWARE
APPLICATIONS WITHIN A COMPUTER SYSTEM**

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A method for optimizing a software application within a computer system is disclosed. A controller and a group of agents are initially provided within a computer system. Each agent within the group is assigned a different range of numbers, and each range initially has an identical size. After a random number has been generated by the controller, an agent among the group of agents having an assigned range within which the random number falls is requested to change a parameter of a software application within the computer system. The range of numbers assigned to that agent is then adjusted according to a performance result of the computer system after the parameter change.

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